

182320 M9

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From: Yu, Misook  
Sent: Thursday, March 16, 2006 6:33 AM  
To: STIC-Biotech/ChemLib  
Subject: 09/724,406

Pls do interference search of SEQ ID NO: 2.

Examiner Misook Yu, Ph.D.  
571-272-0839 (phone)  
571-273-0839 (fax)  
Art Unit 1642  
REM-3D29 (Office)  
REM-3C18 (Mail Box)  
400 Dulany Street  
Alexandria, VA 22314

RECEIVED  
MAR 16 2006  
(STIC)

\*\*\*\*\*  
Searcher: \_\_\_\_\_  
Searcher Phone: \_\_\_\_\_  
Date Searcher Picked up: \_\_\_\_\_  
Date completed: \_\_\_\_\_  
Searcher Prep Time: \_\_\_\_\_  
Online Time: \_\_\_\_\_

\*\*\*\*\*  
Type of Search  
NA# \_\_\_\_\_ AA# \_\_\_\_\_  
S/L: \_\_\_\_\_ Oligomer: \_\_\_\_\_  
Encode/Transl: \_\_\_\_\_  
Structure #: \_\_\_\_\_ Text: \_\_\_\_\_  
Inventor: \_\_\_\_\_ Litigation: \_\_\_\_\_

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Vendors and cost where applicable  
STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
QUESTEL/ORBIS: \_\_\_\_\_  
LEXIS/NEXIS: \_\_\_\_\_  
SEQUENCE SYSTEM: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other (Specify): \_\_\_\_\_

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GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: March 17, 2006, 20:23:11 ; Search time 48 Seconds  
(without alignments)  
201.522 Million cell updates/sec

Title: US-09-724-406-2

Perfect score: 635

Sequence: 1 QIQLQSGPEVVKPGASVKI.....NYGNYFWFAWVGQGTQTVTSA 117

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

1: /cgn2\_6/ptodata/1/iaa/5\_COMB.pep.\*  
2: /cgn2\_6/ptodata/1/iaa/6\_COMB.pep.\*  
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4: /cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep.\*  
5: /cgn2\_6/ptodata/1/iaa/RE\_COMB.pep.\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	543.5	85.6	139	1	US-08-253-877C-8
2	543.5	85.6	139	1	US-08-452-164A-8
3	539.5	85.0	138	2	US-08-603-024-2
4	501.5	79.0	116	1	US-08-888-366-2
5	497.5	78.3	122	2	US-08-767-128-4
6	494	77.8	119	2	US-08-767-128-20
7	490	77.2	119	1	US-08-458-516-11
8	490	77.2	138	1	US-08-458-516-7
9	486	76.5	117	2	US-09-157-370-2
10	483.5	76.1	139	1	US-08-116-778B-1
11	483.5	76.1	139	1	US-08-438-562-1
12	483.5	76.1	139	1	US-08-483-528B-91
13	480.5	75.7	118	1	US-08-428-257A-74
14	480.5	75.7	118	2	US-07-987-264-14
15	477.5	75.2	128	1	US-08-202-047-21
16	477.5	75.2	128	2	US-08-964-690-21
17	476	75.0	121	2	US-08-881-037-65
18	475.5	74.9	139	1	US-08-253-877C-19
19	475.5	74.9	139	1	US-08-452-164A-19
20	475.5	74.9	139	2	US-08-603-024-18
21	475.5	74.9	139	2	US-08-450-809-14
22	474	74.6	119	1	US-08-458-516-10
23	474	74.6	222	1	US-08-458-516-22
24	474	74.6	235	1	US-08-458-516-23
25	474	74.6	240	2	US-10-092-246-34
26	474	74.6	240	2	US-10-092-246-35
27	474	74.6	240	2	US-10-092-246-36

28 474 74.6 240 2 US-10-092-246-37 Sequence 37, Appl  
29 474 74.6 240 2 US-10-096-246A-34 Sequence 34, Appl  
30 474 74.6 240 2 US-10-096-246A-35 Sequence 35, Appl  
31 474 74.6 240 2 US-10-096-246A-37 Sequence 37, Appl  
32 474 74.6 449 1 US-08-458-516-13 Sequence 13, Appl  
33 473 74.5 121 2 US-08-579-378A-7 Sequence 7, Appl  
34 473 74.5 121 4 PCT-US93-11612-7 Sequence 7, Appl  
35 473 74.5 140 4 PCT-US93-11612-4 Sequence 4, Appl  
36 472.5 74.4 118 2 US-08-766-350B-48 Sequence 48, Appl  
37 472.5 74.4 144 2 US-09-393-385B-112 Sequence 112, App  
38 472.5 74.4 144 2 US-10-195-752-112 Sequence 112, App  
39 472 74.3 121 2 US-08-913-555-19 Sequence 19, App  
40 471 74.2 119 2 US-09-254-180C-16 Sequence 16, Appl  
41 471 74.2 119 2 US-09-254-180C-149 Sequence 149, App  
42 471 74.2 119 2 US-08-913-555-23 Sequence 23, Appl  
43 471 74.2 138 2 US-09-254-180C-143 Sequence 143, App  
44 471 74.2 219 2 US-09-254-180C-180 Sequence 180, App  
45 470 74.0 118 2 US-09-065-059-5 Sequence 5, Appl

## ALIGNMENTS

RESULT 1  
US-08-253-877C-8  
; Sequence 8, Application US/08253877C  
; Patent No. 5773001  
; GENERAL INFORMATION:  
; APPLICANT: Hamann, Philip R.  
; APPLICANT: Hinman, Lois  
; APPLICANT: Hollander, Irwin  
; APPLICANT: Holcomb, Ryan  
; APPLICANT: Hallett, William  
; APPLICANT: Tsou, Hwei-Ru  
; APPLICANT: Weiss, Martin J.  
; TITLE OF INVENTION: Conjugates of Methyltrithio Antitumor  
; TITLE OF INVENTION: Agents and Intermediates for Their Synthesis  
; NUMBER OF SEQUENCES: 73  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: American Cyanamid Company  
; STREET: One Cyanamid Plaza  
; CITY: Wayne  
; STATE: New Jersey  
; COUNTRY: U.S.A.  
; ZIP: 07470-8426  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/253,877C  
; FILING DATE: 03-JUN-1994  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Barnhard, Elizabeth M.  
; REGISTRATION NUMBER: 31,088  
; REFERENCE/DOCKET NUMBER: 32,368  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-831-3246  
; TELEFAX: 201-831-3305  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 139 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-253-877C-8

Query Match 85.6%; Score 543.5; DB 1; Length 139;  
Best Local Similarity 87.5%; Pred. No. 7.9e-44;  
Matches 105; Conservative 5; Mismatches 7; Indels 3; Gaps 2;

Qy	1	QIQLQSGPEVVVKPGASVKISCKASGYTFTDYITLWVKQKPGGGLWIGWIPGSGNTKY	60
Db	20	QIQLQSGPELVVKPGASVKISCKASGYTFTDYITLWVKQKPGGGLWIGWIPGSGNTKY	79
Qy	61	NEKPKGKATLTVDTSSTSPFQMLGSLTSEDPAVYFCA--YNGQGTQTVTSA	117
Db	80	NEKPKGKATLTVDTSSTSPYQMLGSLTSEDPAVYFCAREKNTYYVADYMGQGTSTVTS	139

RESULT 2  
US-08-452-164A-8  
; Sequence 8, Application US/08452164A  
; Patent No. 5877296  
; GENERAL INFORMATION:  
; APPLICANT: Hamann, Philip R.  
; APPLICANT: Hinman, Lois  
; APPLICANT: Hollander, Irwin  
; APPLICANT: Holcomb, Ryan  
; APPLICANT: Hallett, William  
; APPLICANT: Tsou, Hwei-Ru  
; APPLICANT: Weiss, Martin J.  
; TITLE OF INVENTION: Conjugates of Methylthio Antitumor  
; TITLE OF INVENTION: Agents and Intermediates for Their Synthesis  
; NUMBER OF SEQUENCES: 73

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Query Match      85.6%; Score 543.5; DB 1; Length 139;
Best Local Similarity 87.5%; Pred. No. 7.9e-44;
Matches 105; Conservative 5; Mismatches 7; Indels 3; Gaps 2;

QY 1 QIQQSGPEVVKPGASVKISCKASGYTFDYYITWVKPGQGLEWIGWYPGSGNTKY 60
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 20 QIQQSGPELVKPGASVKISCKASGYTFDYYINMKQKPGQGLEWIGIDPGSGNTKY 79
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

QY 61 NEKFKGKATLTVDTSSTAFQWLSLTSTEDTAVYFCA-NYGNWFA--YNGQGTQVTVSA 117
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 80 NEKFKGKATLTVDTSSTAFQWLSLTSTEDTAVYFCAREKTTYYAMDYNGQGTQVTVSA 139
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

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RESULT 3  
US-08-603-024-2  
; Sequence 2, Application US/08603024  
; Patent No. 6015562  
; GENERAL INFORMATION:

; APPLICANT: Hinman, Lois M.  
 ; APPLICANT: Menendez, Ana T.  
 ; APPLICANT: Hamann, Philip R.  
 ; TITLE OF INVENTION: TARGETED FORMS OF METHYLTRITHIO  
 ; TITLE OF INVENTION: ANTI-TUMOR AGENTS  
 ; NUMBER OF SEQUENCES: 27  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: American Home Products Corporation  
 ; STREET: One Campus Drive  
 ; CITY: Parsippany  
 ; STATE: NJ  
 ; COUNTRY: USA  
 ; ZIP: 07054

```

Query Match      85.0%; Score 539.5; DB 2; Length 138;
Best Local Similarity 87.4%; Pred. No. 1.9e-43;
Matches 104; Conservative 5; Mismatches 7; Indels 3; Gaps 2;

Qy 1 QIQLQSGPELVKPGASVKISCKASGYTFDYIITVWVKRPGGLEWIGWYPGSGNTKY 60
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 20 QIQLQSGPELVKPGASVKISCKASGYTFDYIINWVKRPGGLEWIGWIDPGSGNTKY 79
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Qy 61 NEKFKGKATLTVDTSSTAPMQLSSLTSETATYVFCANYGNTWFA--YNGQGTQVTVS 116
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 80 NEKFKGKATLTVDTSSTAPMQLSSLTSETATYVFCAREKRTTYTYANDYNGQGTSTVS 138
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

```

```

RESULT 4
US-08-888-366-2
; Sequence 2, Application US/0888366
; Patent No. 5972656
; GENERAL INFORMATION:
; APPLICANT: Lopez, Osvaldo
; APPLICANT: Wylie, Dwane E.
; APPLICANT: Wagner, Fred W.
; TITLE OF INVENTION: Mercury Binding Polypeptides and Nucleotides Coding Therefore
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 90 South 7th Street, 3100 No. 5972656west Ctr.
; CITY: Minneapolis
; STATE: MN
; COUNTRY: USA
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

```

APPLICATION NUMBER: US/08/888,366  
FILING DATE: 03-JUL-1997  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/187,407  
FILING DATE: 27-JAN-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/990,542  
FILING DATE: 14-DEC-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/493,299  
FILING DATE: 14-MAR-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/324,392  
FILING DATE: 14-MAR-1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Carter, Charles G.  
REGISTRATION NUMBER: 35,093  
REFERENCE/DOCKET NUMBER: 8648.39USCI  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 612-332-5300  
TELEFAX: 612-332-9081  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 116 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-888-366-2

Query Match 79.0%; Score 501.5; DB 1; Length 116;

Best Local Similarity 80.3%; Pred. No. 5.8e-40;  
Matches 94; Conservative 9; Mismatches 13; Indels 1; Gaps 1;

QY 1 OIQLOQSGPRVVKPGASVKISCKASGYTFTDYITWVKQPGGGLWIGWYPGSGNTKY 60  
Db 1 EVQLQSGPELVKPGALVKISCKASGYTFTSYDINWVKQPGGGLWIGWYPGDSTKY 60  
QY 61 NEKFKGKATLTVDTSSTAFPMQLSSLTSDTAVYFCANYGNYWFAWYWGQGTQVTVSA 117  
Db 61 NEKFKGKATLTADKSSSTAYWQLSSLTSENSAVYFCARCG-YAMDYWGQGTSTVTVSS 116

## RESULT 5

US-08-767-128-4  
Sequence 4, Application US/08767128  
Patent No. 6111079  
GENERAL INFORMATION:  
APPLICANT: WYLIE, DWANE E.  
APPLICANT: LOPEZ, OSVALDO  
APPLICANT: MURRAY, PETER JOSEPH  
APPLICANT: GOBBEL, PETER  
TITLE OF INVENTION: LEAD BINDING POLYPEPTIDES AND  
TITLE OF INVENTION: NUCLEOTIDES CODING THEREFORE  
NUMBER OF SEQUENCES: 46  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt  
STREET: 3100 No. 6111079west Center, 90 South Seventh St  
CITY: Minneapolis  
STATE: MN  
COUNTRY: USA  
ZIP: 55402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/767,128  
FILING DATE:  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:

FILING DATE: 04-DEC-1996  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/09258  
FILING DATE: 05-JUN-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/541,373  
FILING DATE: 10-OCT-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/462,798  
FILING DATE: 05-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Carter, Charles G.  
REGISTRATION NUMBER: 35,093  
REFERENCE/DOCKET NUMBER: 8648.49USF1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 612/371-5278  
TELEFAX: 612/332-9081  
TELEX:

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:  
LENGTH: 122 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FRAGMENT TYPE: internal  
ORIGINAL SOURCE:  
US-08-767-128-4

Query Match 78.3%; Score 497.5; DB 2; Length 122;

Best Local Similarity 77.0%; Pred. No. 1.4e-39;  
Matches 94; Conservative 9; Mismatches 14; Indels 5; Gaps 2;

QY 1 OIQLOQSGPRVVKPGASVKISCKASGYTFTDYITWVKQPGGGLWIGWYPGSGNTKY 60  
Db 1 EVQLQSGGALVKPGASVKLSCKASGYTFTYIIHWVKQRSGGGLWIGWYFGSGSIKY 60  
QY 61 NEKFKGKATLTVDTSSTAFPMQLSSLTSDTAVYFCA---NYGNY--WFAWYWGQGTQVTV 115  
Db 61 NEKFKGKATLTADKSSSTVMELSLTSDSAVYFCARHEGYGNVYAWFAWYWGQGTIVTV 120

QY 116 SA 117

Db 121 SA 122

## RESULT 6

US-08-767-128-20  
Sequence 20, Application US/08767128  
Patent No. 6111079  
GENERAL INFORMATION:  
APPLICANT: WYLIE, DWANE E.  
APPLICANT: LOPEZ, OSVALDO  
APPLICANT: MURRAY, PETER JOSEPH  
APPLICANT: GOBBEL, PETER  
TITLE OF INVENTION: LEAD BINDING POLYPEPTIDES AND  
TITLE OF INVENTION: NUCLEOTIDES CODING THEREFORE  
NUMBER OF SEQUENCES: 46  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt  
STREET: 3100 No. 6111079west Center, 90 South Seventh St  
CITY: Minneapolis  
STATE: MN  
COUNTRY: USA  
ZIP: 55402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5



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; SEQUENCE CHARACTERISTICS:
;   LENGTH: 138 amino acids
;   TYPE: amino acid
;   TOPOLOGY: linear
;   MOLECULE TYPE: protein
US-08-458-516-7

Query Match      77.2%; Score 490; DB 1; Length 138;
Best Local Similarity 78.2%; Pred. No. 8.4e-39;
Matches 93; Conservative 11; Mismatches 13; Indels 2; Gaps 2;

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Db 20 QVQLQSGGELVKGPGTSVRVSCSKASGYFTFTDYYITWVKQKPGQGLEWIGWYIPGSGGNTY 79

QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSDTAVYFCANY-GNY-WPAYMGQGTQVTVSA 117
Db 80 NEKFKGKATLTVDKSSSTAYLQLSLTSDSVAVYFCARRDGNVGFAYWGRGLTVTVSA 138

RESULT 9
US-09-157-370-2
; Sequence 2, Application US/09157370A
; Patent No. 6262238
; GENERAL INFORMATION:
; APPLICANT: STEIPE, Boris
; APPLICANT: STEINBACHER, Stefan
; TITLE OF INVENTION: PROCESS FOR MODIFYING THE STABILITY OF ANTIBODIES
; FILE REFERENCE: P8341-8072
; CURRENT APPLICATION NUMBER: US/09/157,370A
; CURRENT FILING DATE: 1998-09-21
; EARLIER APPLICATION NUMBER: 08/765,179
; EARLIER FILING DATE: 1997-01-14
; EARLIER APPLICATION NUMBER: PCT/EP95/02626
; EARLIER FILING DATE: 1995-07-06
; EARLIER APPLICATION NUMBER: DE/P44 25 115.7
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Mus sp.
US-09-157-370-2

Query Match      76.5%; Score 486; DB 2; Length 117;
Best Local Similarity 76.3%; Pred. No. 1.7e-38;
Matches 90; Conservative 13; Mismatches 14; Indels 0; Gaps 0;

QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKQKPGQGLEWIGWYIPGSGNTKY 60
Db 1 EVQLQSGGELVKGPGASVKLSCKASGYTFTSYIMHWVKQRPKGLEWIGRINPGSGGNTY 60

QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSDTAVYFCANYGNYFPAYWGQGTQVTVSA 117
Db 61 NEKFKGKATLTVDKSSSTAYLQLSLTSDSVAVYFCARGYYFDYWGQGTQVTVSS 117

RESULT 10
US-08-116-778E-1
; Sequence 1, Application US/08116778E
; Patent No. 5830470
; GENERAL INFORMATION:
; APPLICANT: NAKAMURA, KAZUYASU
; APPLICANT: KOIKE, MASAMICHI
; APPLICANT: SHITARA, KENYA
; APPLICANT: HANAI, NOBUO
; APPLICANT: KUWANA, YOSHIHISA
; APPLICANT: HASEGAWA, MAMORU
; TITLE OF INVENTION: HUMANIZED ANTIBODIES
; NUMBER OF SEQUENCES: 49
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
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; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/116,778E
; FILING DATE: 07-SEP-93
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: WILSON, MARY J.
; REGISTRATION NUMBER: 32,955
; REFERENCE/DOCKET NUMBER: 249-59
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)816-4000
; TELEFAX: (703)816-4100
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 139 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 19..31
; IDENTIFICATION METHOD: BY SIMILARITY
; IDENTIFICATION METHOD: WITH KNOWN SEQUENCE OR TO AN
; IDENTIFICATION METHOD: ESTABLISHED CONSENSUS
; FEATURE:
; NAME/KEY: domain
; LOCATION: 31..35
; IDENTIFICATION METHOD: BY SIMILARITY
; IDENTIFICATION METHOD: WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
; IDENTIFICATION METHOD: CONSENSUS
; OTHER INFORMATION: /product= "HYPERVARIABLE REGION 1"
; FEATURE:
; NAME/KEY: domain
; LOCATION: 50..66
; IDENTIFICATION METHOD: BY SIMILARITY
; IDENTIFICATION METHOD: WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
; IDENTIFICATION METHOD: CONSENSUS
; OTHER INFORMATION: /product= "HYPERVARIABLE REGION 2"
; FEATURE:
; NAME/KEY: domain
; LOCATION: 99..109
; IDENTIFICATION METHOD: BY SIMILARITY
; IDENTIFICATION METHOD: WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
; IDENTIFICATION METHOD: CONSENSUS
; OTHER INFORMATION: /product= "HYPERVARIABLE REGION 3"
; US-08-116-778E-1

Query Match      76.1%; Score 483.5; DB 1; Length 139;
Best Local Similarity 75.0%; Pred. No. 3.5e-38;
Matches 90; Conservative 14; Mismatches 13; Indels 3; Gaps 1;

QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKQKPGQGLEWIGWYIPGSGNTKY 60
Db 20 EVQLQSGPELVKPGASVKISCKASGYTFTDYNMDWVKQSHGSKLEWIGYIYPNGGTGY 79

QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSDTAVYFCANYGNYW---PAYWGQGTQVTVSA 117
Db 80 NEKFKGKATLTVDKSSSTAYLMELSLTSDSVAVYCATYGHYGYMPAYWGQGTQVTVSA 139

RESULT 11
US-08-438-562-1
; Sequence 1, Application US/08438562
; Patent No. 5874255
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IDENTIFICATION METHOD: WITH KNOWN SEQUENCE OR TO AN ESTABLISHED  
IDENTIFICATION METHOD: CONSENSUS  
OTHER INFORMATION: /product= "HYPERVARIABLE REGION 3"  
US-08-483-5288-91

Query Match 76.1%; Score 483.5; DB 1; Length 139;  
Best Local Similarity 75.0%; Pred. No. 3.5e-38;  
Matches 90; Conservative 14; Mismatches 13; Indels 3; Gaps 1;  
QY 1 QIQLQSGPEVVKPGASVKISKASGYTFTDYITVWKQPGQGLEWIGWIPGSGNTKY 60  
Db 20 EVQLQSGPELVKPGASVKISKASGYTFTDYNDVWKQSHGKSLWIGWIPNNGTGY 79  
QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDTAVYFCANTGNW---PAYWGQGTQVTVSA 117  
Db 80 NQKFKSKATLTVDKSSSTAYMELHSLTSEDSAVVYCATYGHYYGYMFAYWGQGTQVTVSA 139

## RESULT 13

US-08-428-257A-74  
Sequence 74, Application US/08428257A  
Patent No. 5885808

GENERAL INFORMATION:  
APPLICANT: Spooner, Robert A.  
TITLE OF INVENTION: Compounds to target cells  
NUMBER OF SEQUENCES: 80  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Jules E. Goldberg  
STREET: 261 Madison Avenue  
CITY: New York  
STATE: NY  
COUNTRY: USA  
ZIP: 10016-2391

COMPUTER READABLE FORM:  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25 (BPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/428,257A  
FILING DATE: 07/05/95

CLASSIFICATION: 514  
INFORMATION FOR SEQ ID NO: 74:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 118 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

US-08-428-257A-74

Query Match 75.7%; Score 480.5; DB 1; Length 118;  
Best Local Similarity 75.4%; Pred. No. 5.5e-38;  
Matches 89; Conservative 15; Mismatches 13; Indels 1; Gaps 1;  
QY 1 QIQLQSGPEVVKPGASVKISKASGYTFTDYITVWKQPGQGLEWIGWIPGSGNTKY 60  
Db 1 QVQLQSGAELMKPGASVKISKATGYTFSAYIEWVKQPGHGLEWIGILPGSNNRY 60  
QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDTAVYFCNA-NYGNWFAFWGQGTQVTVSA 117  
Db 61 NEKFKGKATLTADTSNTAYMQLSSLTSEDSAVVYCSRSYDFAFWFGQGTPTVTVSA 118

## RESULT 14

US-07-987-264-14  
Sequence 14, Application US/07987264  
Patent No. 6204366

GENERAL INFORMATION:  
APPLICANT: VERHOEVEN, MARTINE ELISA  
TITLE OF INVENTION: SPECIFIC BINDING AGENTS  
NUMBER OF SEQUENCES: 62  
CORRESPONDENCE ADDRESS:

ADDRESSEE: CUSHMAN, DARBY & CUSHMAN  
STREET: 1100 NEW YORK AVENUE, N.W.  
CITY: WASHINGTON  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20005-3918  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/987,264  
FILING DATE: 08-MAR-1993  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: GB 9019553.8  
FILING DATE: 07-SEP-1990  
PRIOR APPLICATION DATA: GB PCT/GB91/01511  
FILING DATE: 05-SEP-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: KOKULIS, PAUL N.  
REGISTRATION NUMBER: 16,773  
REFERENCE/DOCKET NUMBER: 200232/P3095USA  
TELEPHONE: (202) 861-3000  
TELEFAX: (202) 822-0944  
TELEX: 6714627 CUSH  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 118 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-07-987-264-14  
Query Match 75.7%; Score 480.5; DB 2; Length 118;  
Best Local Similarity 75.4%; Pred. No. 5.5e-38;  
Matches 89; Conservative 15; Mismatches 13; Indels 1; Gaps 1;  
QY 1 QIQLQSGPEVVKPGASVKISKASGYTFTDYITVWKQPGQGLEWIGWIPGSGNTKY 60  
Db 1 QVQLQSGAELMKPGASVKISKATGYTFSAYIEWVKQPGHGLEWIGILPGSNNRY 60  
QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDTAVYFCNA-NYGNWFAFWGQGTQVTVSA 117  
Db 61 NEKFKGKATLTADTSNTAYMQLSSLTSEDSAVVYCSRSYDFAFWFGQGTPTVTVSA 118

RESULT 15  
US-08-202-047-21  
Sequence 21, Application US/08202047  
Patent No. 5800815  
GENERAL INFORMATION:  
APPLICANT: CHESNUT, Robert W.  
APPLICANT: POLLEY, Margaret J.  
APPLICANT: PAULSON, James C.  
APPLICANT: JONES, S. Tarran  
APPLICANT: SALDANHA, Jose W.  
APPLICANT: BENDIG, Mary M.  
TITLE OF INVENTION: Antibodies to P-Selectin and Their Uses  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend Kourie and Crew  
STREET: One Market Plaza, Steuart Tower, Suite 2000  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94105  
COMPUTER READABLE FORM: disk  
MEDIUM TYPE: Floppy

Search completed: March 17, 2006, 20:26:02  
Job time : 49 secs

GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: March 17, 2006, 20:26:01 ; Search time 63 Seconds  
(without alignments)  
775.969 Million cell updates/sec

Title: US-09-724-406-2  
Perfect score: 635  
Sequence: 1 QIQLQSGPEVVKPGASVKI.....NYGNVFAWGGQTQVTUSA 117

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA\_Main:\*  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep:\*  
2: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep:\*  
3: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep:\*  
4: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep:\*  
5: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep:\*  
6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	635	100.0	117	4	US-10-447-257-2
2	635	100.0	117	5	US-10-496-628-2
3	549	86.5	117	5	US-10-729-441-76
4	549	86.5	117	5	US-10-895-135-54
5	549	86.5	117	5	US-10-897-406-76
6	548	86.3	116	5	US-10-700-632-74
7	543.5	85.6	120	5	US-10-729-441-78
8	543.5	85.6	120	5	US-10-895-135-59
9	543.5	85.6	120	5	US-10-897-406-78
10	539.5	85.0	119	5	US-10-700-632-75
11	523	82.4	118	5	US-10-683-547-12
12	502.5	79.1	139	4	US-10-006-773-13
13	498.5	78.5	120	6	US-11-050-435-24
14	498.5	78.5	124	6	US-11-050-435-3
15	495	78.0	123	6	US-11-036-098-14
16	494.5	78.0	532	6	US-11-036-098-18
17	494.5	77.9	120	6	US-11-050-435-31
18	493.5	77.7	243	4	US-10-097-558-2
19	493.5	77.7	243	5	US-10-505-658-2
20	492	77.5	138	2	US-08-779-784-31
21	492	77.5	138	4	US-10-010-729-67
22	490	77.2	113	4	US-10-307-2768-3
23	490	77.2	113	6	US-11-061-956-3
24	490	77.2	119	4	US-10-411-037-54
25	490	77.2	119	4	US-10-411-026-54
26	490	77.2	119	4	US-10-410-962-54
27	490	77.2	119	4	US-10-411-049-54

28	490	77.2	119	4	US-10-410-930-54	Sequence 54, Appl
29	490	77.2	119	4	US-10-410-997-54	Sequence 54, Appl
30	490	77.2	119	4	US-10-411-012-54	Sequence 54, Appl
31	490	77.2	119	4	US-10-287-994-54	Sequence 54, Appl
32	490	77.2	119	4	US-10-410-913-54	Sequence 54, Appl
33	490	77.2	119	5	US-10-410-980-54	Sequence 54, Appl
34	490	77.2	119	5	US-10-410-897-54	Sequence 54, Appl
35	490	77.2	119	5	US-10-492-261-54	Sequence 54, Appl
36	490	77.2	164	4	US-10-471-475A-23	Sequence 23, Appl
37	489.5	77.1	243	4	US-10-097-558-3	Sequence 3, Appl
38	489.5	77.1	243	5	US-10-505-658-3	Sequence 10, Appl
39	489	77.0	113	4	US-10-307-2768-10	Sequence 10, Appl
40	489	77.0	113	6	US-11-061-956-10	Sequence 10, Appl
41	489	77.0	164	4	US-10-471-475A-24	Sequence 24, Appl
42	488.5	76.9	120	6	US-11-050-435-30	Sequence 30, Appl
43	486	76.5	117	5	US-10-683-547-14	Sequence 14, Appl
44	485.5	76.5	116	5	US-10-901-842-1	Sequence 1, Appl
45	484.5	76.3	120	6	US-11-050-435-29	Sequence 29, Appl

ALIGNMENTS

RESULT 1

US-10-447-257-2  
; Sequence 2, Application US/10447257  
; Publication No. US20040018194A1  
; GENERAL INFORMATION:  
; APPLICANT: Francisco et al.  
; TITLE OF INVENTION: RECOMBINANT ANTI-CD30 ANTIBODIES AND USES THEREOF  
; FILE REFERENCE: 9632-006  
; CURRENT APPLICATION NUMBER: US/10/447,257  
; CURRENT FILING DATE: 2003-05-28  
; PRIOR APPLICATION NUMBER: US/09/724,406  
; PRIOR FILING DATE: 2000-11-28  
; NUMBER OF SEQ ID NOS: 32  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 117  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-10-447-257-2

Query Match 100.0%; Score 635; DB 4; Length 117;  
Best Local Similarity 100.0%; Pred. No. 1.2e-47;  
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKQKPGGLEWIGWYPSGNTKY	60
Db	1	QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKQKPGGLEWIGWYPSGNTKY	60
Qy	61	NEKFKGKATLTVDTSSSTAFMQLSSLTSEDYVFCANYGNVFAWGGQTQVTUSA	117
Db	61	NEKFKGKATLTVDTSSSTAFMQLSSLTSEDYVFCANYGNVFAWGGQTQVTUSA	117

RESULT 2

US-10-496-628-2  
; Sequence 2, Application US/10496628  
; Publication No. US20050123536A1  
; GENERAL INFORMATION:  
; APPLICANT: Law, Che-Leung  
; APPLICANT: Klusman, Kerry  
; APPLICANT: Wahl, Alan  
; APPLICANT: Senter, Peter  
; APPLICANT: Doronina, Svetlana  
; APPLICANT: Toki, Brian  
; TITLE OF INVENTION: TREATMENT OF IMMUNOLOGICAL DISORDERS USING  
; TITLE OF INVENTION: ANTI-CD30 ANTIBODIES  
; FILE REFERENCE: 9632-077-999  
; CURRENT APPLICATION NUMBER: US/10/496,628  
; CURRENT FILING DATE: 2004-05-20  
; PRIOR APPLICATION NUMBER: PCT/US02/37223

;  
; PRIOR FILING DATE: 2002-11-22  
; PRIOR APPLICATION NUMBER: 60/331,750  
; PRIOR FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 117  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-10-496-628-2

Query Match 100.0%; Score 635; DB 5; Length 117;  
Best Local Similarity 100.0%; Pred. No. 1.2e-47;  
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 QIQLOQSGPEVVKPGASVKISCKASGYTFDYIITWVKQKPGGLEWIGWIYPGSGNTKY 60  
DB 1 QIQLOQSGPEVVKPGASVKISCKASGYTFDYIITWVKQKPGGLEWIGWIYPGSGNTKY 60  
  
QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDYAVYFCANYGNWYFAYWGQGTQVTVSA 117  
DB 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDYAVYFCANYGNWYFAYWGQGTQVTVSA 117

RESULT 3  
US-10-729-441-76  
; Sequence 76, Application US/10729441  
; Publication No. US2004025307A1  
; GENERAL INFORMATION:  
; APPLICANT: Immunogen, Inc.  
; TITLE OF INVENTION: ANTI-IGF-I RECEPTOR ANTIBODY  
; FILE REFERENCE: A8689  
; CURRENT APPLICATION NUMBER: US/10/729,441  
; CURRENT FILING DATE: 2003-12-08  
; PRIOR APPLICATION NUMBER: 10/170,390  
; PRIOR FILING DATE: 2002-06-14  
; NUMBER OF SEQ ID NOS: 96  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 76  
; LENGTH: 117  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: synthetic antibody structure  
US-10-729-441-76

Query Match 86.5%; Score 549; DB 5; Length 117;  
Best Local Similarity 86.3%; Pred. No. 3.7e-40;  
Matches 101; Conservative 8; Mismatches 8; Indels 0; Gaps 0;  
  
QY 1 QIQLOQSGPEVVKPGASVKISCKASGYTFDYIITWVKQKPGGLEWIGWIYPGSGNTKY 60  
DB 1 QIQLOQSGPEVVKPGASVKISCKASGYTFDYIITWVKQKPGGLEWIGWIYPGSGNTKY 60  
  
QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDYAVYFCANYGNWYFAYWGQGTQVTVSA 117  
DB 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDYAVYFCARGGKPFAMDYWGQGTSTVTVSS 117

RESULT 4  
US-10-895-135-54  
; Sequence 54, Application US/10895135  
; Publication No. US20050123549A1  
; GENERAL INFORMATION:  
; APPLICANT: Immunogen, Inc.  
; APPLICANT: PAYNE, Gillian  
; APPLICANT: CHUN, Philip  
; APPLICANT: TAVARES, Daniel  
; TITLE OF INVENTION: A CM6 ANTIGEN-SPECIFIC CYTOTOXIC CONJUGATE AND METHODS OF USING  
; FILE REFERENCE: THE SAME  
; CURRENT APPLICATION NUMBER: US/10/895,135  
; CURRENT FILING DATE: 2004-07-21

;  
; PRIOR APPLICATION NUMBER: 60/488,447  
; PRIOR FILING DATE: 2003-07-21  
; NUMBER OF SEQ ID NOS: 63  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 54  
; LENGTH: 117  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-10-895-135-54

Query Match 86.5%; Score 549; DB 5; Length 117;  
Best Local Similarity 86.3%; Pred. No. 3.7e-40;  
Matches 101; Conservative 8; Mismatches 8; Indels 0; Gaps 0;  
  
QY 1 QIQLOQSGPEVVKPGASVKISCKASGYTFDYIITWVKQKPGGLEWIGWIYPGSGNTKY 60  
DB 1 QIQLOQSGPEVVKPGASVKISCKASGYTFDYIITWVKQKPGGLEWIGWIYPGSGNTKY 60  
  
QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDYAVYFCANYGNWYFAYWGQGTQVTVSA 117  
DB 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDYAVYFCARGGKPFAMDYWGQGTSTVTVSS 117

RESULT 5  
US-10-897-406-76  
; Sequence 76, Application US/10897406  
; Publication No. US20050186203A1  
; GENERAL INFORMATION:  
; APPLICANT: Immunogen, Inc.  
; TITLE OF INVENTION: ANTI-IGF-I RECEPTOR ANTIBODY  
; FILE REFERENCE: A8338  
; CURRENT APPLICATION NUMBER: US/10/897,406  
; CURRENT FILING DATE: 2004-07-23  
; PRIOR APPLICATION NUMBER: US/10/170,390  
; PRIOR FILING DATE: 2002-06-14  
; NUMBER OF SEQ ID NOS: 96  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 76  
; LENGTH: 117  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: synthetic antibody structure  
US-10-897-406-76

Query Match 86.5%; Score 549; DB 5; Length 117;  
Best Local Similarity 86.3%; Pred. No. 3.7e-40;  
Matches 101; Conservative 8; Mismatches 8; Indels 0; Gaps 0;  
  
QY 1 QIQLOQSGPEVVKPGASVKISCKASGYTFDYIITWVKQKPGGLEWIGWIYPGSGNTKY 60  
DB 1 QIQLOQSGPEVVKPGASVKISCKASGYTFDYIITWVKQKPGGLEWIGWIYPGSGNTKY 60  
  
QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDYAVYFCANYGNWYFAYWGQGTQVTVSA 117  
DB 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDYAVYFCARGGKPFAMDYWGQGTSTVTVSS 117

RESULT 6  
US-10-700-632-74  
; Sequence 74, Application US/10700632  
; Publication No. US20050118183A1  
; GENERAL INFORMATION:  
; APPLICANT: Immunogen, Inc.  
; TITLE OF INVENTION: ANTI-CD33 ANTIBODIES AND METHODS FOR TREATMENT OF ACUTE MYELOID  
; FILE REFERENCE: A8427  
; CURRENT APPLICATION NUMBER: US/10/700,632  
; CURRENT FILING DATE: 2003-11-05  
; PRIOR APPLICATION NUMBER: US 60/424,332  
; PRIOR FILING DATE: 2002-11-07  
; NUMBER OF SEQ ID NOS: 94  
; SOFTWARE: PatentIn version 3.2

```
; SEQ ID NO 74
; LENGTH: 116
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-700-632-74

Query Match      86.3%; Score 548; DB 5; Length 116;
Best Local Similarity 87.1%; Pred. No. 4.4e-40;
Matches 101; Conservative 7; Mismatches 8; Indels 0; Gaps 0;

QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKQKPGQGLEWIGWIPGSGNTKY 60
   |||||:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|
Db 1 QIQLQSGPELVKPGASVKISCKASGYTFTDYYIHVWVKQKPGQGLEWIGWIPGSGNTKY 60
   |||||:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|

QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDTAVYFCANYGNTWFA--YWGQGTQVTVSA 116
   |||||:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|
Db 61 NEKFKGKATLTVDTSSTAYMQLSSLTSEDSAVYFCARGGKPFAMDYWGQGTSTVTVSA 116
   |||||:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|

RESULT 7
US-10-729-441-78
; Sequence 78, Application US/10729441
; Publication No. US20040265307A1
; GENERAL INFORMATION:
; APPLICANT: ImmunoGen, Inc.
; TITLE OF INVENTION: ANTI-IGF-I RECEPTOR ANTIBODY
; FILE REFERENCE: A8689
; CURRENT APPLICATION NUMBER: US/10/729,441
; CURRENT FILING DATE: 2003-12-08
; PRIOR APPLICATION NUMBER: 10/170,390
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 78
; LENGTH: 120
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic antibody structure
US-10-729-441-78

Query Match      85.6%; Score 543.5; DB 5; Length 120;
Best Local Similarity 87.5%; Pred. No. 1.1e-39;
Matches 105; Conservative 5; Mismatches 7; Indels 3; Gaps 2;

QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKQKPGQGLEWIGWIPGSGNTKY 60
   |||||:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|
Db 1 QIQLQSGPELVKPGASVKISCKASGYTFTDYYINNMKQKPGQGLEWIGWIDPFGSGNTKY 60
   |||||:|:|:~|:|:~|:|:~|:|:~|:|:~|:|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|

QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDTAVYFCANYGNTWFA--YWGQGTQVTVSA 117
   |||||:|:|:~|:|:~|:|:~|:|:~|:|:~|:|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|
Db 61 NEKFKGKATLTVDTSSTAYMQLSSLTSEDTAVYFCAREKTTYYYAMDYWGQGTSTVTVSA 120
   |||||:|:|:~|:|:~|:|:~|:|:~|:|:~|:|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|

RESULT 8
US-10-895-135-59
; Sequence 59, Application US/10895135
; Publication No. US20050123549A1
; GENERAL INFORMATION:
; APPLICANT: ImmunoGen, Inc.
; APPLICANT: PAYNE, Gillian
; APPLICANT: CHUN, Philip
; APPLICANT: TAVARES, Daniel
; TITLE OF INVENTION: A CA6 ANTIGEN-SPECIFIC CYTOTOXIC CONJUGATE AND METHODS OF USING
; TITLE OF INVENTION: THE SAME
; FILE REFERENCE: A8621
; CURRENT APPLICATION NUMBER: US/10/895,135
; CURRENT FILING DATE: 2004-07-21
; PRIOR APPLICATION NUMBER: 60/488,447
; PRIOR FILING DATE: 2003-07-21
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 59
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; LENGTH: 120
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-895-135-59

Query Match      85.6%; Score 543.5; DB 5; Length 120;
Best Local Similarity 87.5%; Pred. No. 1.1e-39;
Matches 105; Conservative 5; Mismatches 7; Indels 3; Gaps 2;

QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKQKPGQGLEWIGWIPGSGNTKY 60
   |||||:|:|:~|:|:~|:|:~|:|:~|:|:~|:|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|
Db 1 QIQLQSGPELVKPGASVKISCKASGYTFTDYYINNMKQKPGQGLEWIGWIDPFGSGNTKY 60
   |||||:|:|:~|:|:~|:|:~|:|:~|:|:~|:|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|

QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDTAVYFCANYGNTWFA--YWGQGTQVTVSA 117
   |||||:|:|:~|:|:~|:|:~|:|:~|:|:~|:|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|
Db 61 NEKFKGKATLTVDTSSTAYMQLSSLTSEDTAVYFCAREKTTYYYAMDYWGQGTSTVTVSA 120
   |||||:|:|:~|:|:~|:|:~|:|:~|:|:~|:|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|

RESULT 9
US-10-897-406-78
; Sequence 78, Application US/10897406
; Publication No. US20050186203A1
; GENERAL INFORMATION:
; APPLICANT: ImmunoGen, Inc.
; TITLE OF INVENTION: ANTI-IGF-I RECEPTOR ANTIBODY
; FILE REFERENCE: A8338
; CURRENT APPLICATION NUMBER: US/10/897,406
; CURRENT FILING DATE: 2004-07-23
; PRIOR APPLICATION NUMBER: US/10/170,390
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 78
; LENGTH: 120
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic antibody structure
US-10-897-406-78

Query Match      85.6%; Score 543.5; DB 5; Length 120;
Best Local Similarity 87.5%; Pred. No. 1.1e-39;
Matches 105; Conservative 5; Mismatches 7; Indels 3; Gaps 2;

QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKQKPGQGLEWIGWIPGSGNTKY 60
   |||||:|:|:~|:|:~|:|:~|:|:~|:|:~|:|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|
Db 1 QIQLQSGPELVKPGASVKISCKASGYTFTDYYINNMKQKPGQGLEWIGWIDPFGSGNTKY 60
   |||||:|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|

QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDTAVYFCANYGNTWFA--YWGQGTQVTVSA 117
   |||||:|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|
Db 61 NEKFKGKATLTVDTSSTAYMQLSSLTSEDTAVYFCAREKTTYYYAMDYWGQGTSTVTVSA 120
   |||||:|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|:~|

RESULT 10
US-10-700-632-75
; Sequence 75, Application US/10700632
; Publication No. US20050118183A1
; GENERAL INFORMATION:
; APPLICANT: ImmunoGen, Inc.
; TITLE OF INVENTION: ANTI-CD33 ANTIBODIES AND METHODS FOR TREATMENT OF ACUTE MYELOID
; TITLE OF INVENTION: LEUKEMIA USING THE SAME
; FILE REFERENCE: A8427
; CURRENT APPLICATION NUMBER: US/10/700,632
; CURRENT FILING DATE: 2003-11-05
; PRIOR APPLICATION NUMBER: US 60/424,332
; PRIOR FILING DATE: 2002-11-07
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 75
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-700-632-75
```

Query Match 85.0%; Score 539.5; DB 5; Length 119;  
Best Local Similarity 87.4%; Pred. No. 2.5e-39;  
Matches 104; Conservative 5; Mismatches 7; Indels 3; Gaps 2;  
QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYITWVKQPGGLEWIGWIYPGSGNTKY 60  
DB 1 QIQLQSGPELVKPGASVKISCKASGYTFTDYINWVKQPGGLEWIGWIDPGSGNTKY 60  
QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDYVFCANYGNYWFA--YWGQGTQVTVSA 116  
DB 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDYVFCAREKTTYIYAMDYWGQGTSTVTS 119  
RESULT 11  
US-10-683-547-12  
; Sequence 12, Application US/10683547  
; Publication No. US20050058638A1  
; GENERAL INFORMATION:  
; APPLICANT: Huston, J.  
; APPLICANT: Houston, L.L.  
; APPLICANT: Ring, D.  
; APPLICANT: Oppermann, H.  
; TITLE OF INVENTION: BIOSYNTHETIC BINDING PROTEINS FOR IMMUNO-TARGETING  
; FILE REFERENCE: CIBT-P01-130  
; CURRENT APPLICATION NUMBER: US/10/683,547  
; PRIOR FILING DATE: 2003-10-10  
; PRIOR APPLICATION NUMBER: US/09/558,741  
; PRIOR FILING DATE: 2000-04-26  
; PRIOR APPLICATION NUMBER: 07/831,967  
; PRIOR FILING DATE: 1992-02-06  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 12  
; LENGTH: 118  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-10-683-547-12  
Query Match 82.4%; Score 523; DB 5; Length 118;  
Best Local Similarity 79.5%; Pred. No. 6.7e-38;  
Matches 93; Conservative 14; Mismatches 10; Indels 0; Gaps 0;  
QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYITWVKQPGGLEWIGWIYPGSGNTKY 60  
DB 1 QVQLQSGPELVKPGASVKISCTASGTTFTNYIHWKQPGGLEWIGWIYPGSGNTKY 60  
QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDYVFCANYGNYWFA--YWGQGTQVTVSA 117  
DB 61 NENFKGKATLTADKSSSTAFMQLSSLTSEDYVFCARYTHIYFDYWGQGTTLTVSS 117  
RESULT 12  
US-10-006-773-13  
; Sequence 13, Application US/10006773  
; Publication No. US20020132983A1  
; GENERAL INFORMATION:  
; APPLICANT: Junghans, Richard P.  
; TITLE OF INVENTION: Antibodies as Chimeric Effector Cell Receptors Against Tumor Anti  
; FILE REFERENCE: 003  
; CURRENT APPLICATION NUMBER: US/10/006,773  
; CURRENT FILING DATE: 2001-12-10  
; PRIOR APPLICATION NUMBER: 60/250,089  
; PRIOR FILING DATE: 2000-11-30  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 13  
; LENGTH: 139  
; TYPE: PRT  
; ORGANISM: Mus sp.  
US-10-006-773-13  
Query Match 79.1%; Score 502.5; DB 4; Length 139;

Best Local Similarity 79.2%; Pred. No. 4.8e-36;  
Matches 95; Conservative 7; Mismatches 15; Indels 3; Gaps 1;  
QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYITWVKQPGGLEWIGWIYPGSGNTKY 60  
DB 20 QVQLQSGPELVKPGALVKISCKASGYTFTSDINWVKQPGGLEWIGWIYFGDGTNY 79  
QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDYVFCANYG---YWFAYWGQGTQVTVSA 117  
DB 80 NEKFKGKATLTADKSSSTAFMQLSSLTSENNAVYFCARGNPFPSYAMDYWGQGTSTVTS 139  
RESULT 13  
US-11-050-435-24  
; Sequence 24, Application US/11050435  
; Publication No. US20050226883A1  
; GENERAL INFORMATION:  
; APPLICANT: AVERBACK, PAUL  
; APPLICANT: GEMMELL, JACK  
; TITLE OF INVENTION: HUMANIZED ANTIBODY  
; FILE REFERENCE: 59003.000046  
; CURRENT APPLICATION NUMBER: US/11/050,435  
; CURRENT FILING DATE: 2005-02-04  
; PRIOR APPLICATION NUMBER: 60/541,944  
; PRIOR FILING DATE: 2004-02-04  
; NUMBER OF SEQ ID NOS: 49  
; SOFTWARE: PatentIn Ver. 3.3  
; SEQ ID NO 24  
; LENGTH: 120  
; TYPE: PRT  
; ORGANISM: Mus sp.  
US-11-050-435-24  
Query Match 78.5%; Score 498.5; DB 6; Length 120;  
Best Local Similarity 76.7%; Pred. No. 9.2e-36;  
Matches 92; Conservative 12; Mismatches 13; Indels 3; Gaps 1;  
QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYITWVKQPGGLEWIGWIYPGSGNTKY 60  
DB 1 QVQLQSGPELVKPGASVKISCKASGYTFAGHYVHWKQPGGLEWIGWILPGKNTKY 60  
QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDYVFCANYG---NYWFAYWGQGTQVTVSA 117  
DB 61 NEKFKGKATLTADKSSSTAFMQLSSLTSEDYVFCARVGYDYPYFYDWGQGTTLTVSS 120  
RESULT 14  
US-11-050-435-3  
; Sequence 3, Application US/11050435  
; Publication No. US20050226883A1  
; GENERAL INFORMATION:  
; APPLICANT: AVERBACK, PAUL  
; APPLICANT: GEMMELL, JACK  
; TITLE OF INVENTION: HUMANIZED ANTIBODY  
; FILE REFERENCE: 59003.000046  
; CURRENT APPLICATION NUMBER: US/11/050,435  
; CURRENT FILING DATE: 2005-02-04  
; PRIOR APPLICATION NUMBER: 60/541,944  
; PRIOR FILING DATE: 2004-02-04  
; NUMBER OF SEQ ID NOS: 49  
; SOFTWARE: PatentIn Ver. 3.3  
; SEQ ID NO 3  
; LENGTH: 124  
; TYPE: PRT  
; ORGANISM: Mus sp.  
US-11-050-435-3  
Query Match 78.5%; Score 498.5; DB 6; Length 124;  
Best Local Similarity 75.8%; Pred. No. 9.5e-36;  
Matches 91; Conservative 14; Mismatches 12; Indels 3; Gaps 1;  
QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYITWVKQPGGLEWIGWIYPGSGNTKY 60

Db 5 QVQLQSGPDLVPGASVTRISKASGYTFAGYVHVHVQRPGGLEWIGWIFPGKVNTKY 64  
 QY 61 NEKPKGKATLTVDTSSTAFMQLSSLTSEDYVFCANYG---NYWFAYWGQGTQVTVSA 117  
 Db 65 NEKPKGKATLTADKSSSTAYMQLSSLTSEDYVFCARVGYDYPYFYDYWGQGTTLTVSS 124

RESULT 15

US-11-036-098-14  
 ; Sequence 14, Application US/11036098  
 ; Publication No. US20050163770A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Connex GmbH  
 ; TITLE OF INVENTION: Immunological reagent specifically interacting with the  
 ; FILE REFERENCE: C1368PCT  
 ; CURRENT APPLICATION NUMBER: US/11/036,098  
 ; CURRENT FILING DATE: 2005-01-18  
 ; PRIOR APPLICATION NUMBER: US/09/743,482  
 ; PRIOR FILING DATE: 2001-02-28  
 ; PRIOR APPLICATION NUMBER: EP 98 11 2867.1  
 ; PRIOR FILING DATE: 1998-07-10  
 ; NUMBER OF SEQ ID NOS: 18  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 14  
 ; LENGTH: 123  
 ; TYPE: PRT  
 ; ORGANISM: Rattus norvegicus  
 US-11-036-098-14

Query Match 78.0%; Score 495; DB 6; Length 123;  
 Best Local Similarity 74.8%; Pred. No. 1.9e-35;  
 Matches 92; Conservative 13; Mismatches 12; Indels 6; Gaps 1;  
 QY 1 QIQLQSGPEWVKPGASVKISKASGYTFDYVITWVKQPGGLEWIGWIFPGSGNTKY 60  
 Db 1 QVQLQSGAEVVKPGSSVKISKASGYTFTSDMHWIKQPGNGLEWIGWIFPGNTKY 60  
 QY 61 NEKPKGKATLTVDTSSTAFMQLSSLTSEDYVFCANYGNYM-----FAYWGQGTQVTV 114  
 Db 61 NQKFKGKATLTADKSSSTAYMQLSSLTSEDYVFCARVGYDYPYFYDYWGQGTTLTV 120  
 QY 115 VSA 117  
 Db 121 VSS 123

Search completed: March 17, 2006, 20:27:12  
 Job time : 64 secs

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Result No.	Score	Query		Length	DB	ID	Description
		Match	%				
1	635	100.0	117	7	US-11-149-943-61		Sequence 61, App1
2	635	100.0	117	7	US-11-004-590-119		Sequence 119, App
3	571	89.9	117	7	US-11-004-590-221		Sequence 221, App
4	567	89.3	117	7	US-11-004-590-166		Sequence 166, App
5	567	89.3	117	7	US-11-004-590-181		Sequence 181, App
6	563	88.7	117	7	US-11-004-590-168		Sequence 168, App
7	563	88.7	117	7	US-11-004-590-170		Sequence 170, App
8	560	88.2	117	7	US-11-004-590-169		Sequence 169, App
9	560	88.2	117	7	US-11-004-590-184		Sequence 184, App
10	559	88.0	117	7	US-11-004-590-165		Sequence 165, App
11	559	88.0	117	7	US-11-004-590-178		Sequence 178, App
12	559	88.0	117	7	US-11-004-590-180		Sequence 180, App
13	558	87.9	117	7	US-11-004-590-173		Sequence 173, App
14	557	87.7	117	7	US-11-004-590-206		Sequence 206, App
15	557	87.7	117	7	US-11-004-590-207		Sequence 207, App
16	556	87.6	117	7	US-11-004-590-162		Sequence 162, App
17	556	87.6	117	7	US-11-004-590-179		Sequence 179, App
18	555	87.4	117	7	US-11-004-590-167		Sequence 167, App
19	555	87.4	117	7	US-11-004-590-189		Sequence 189, App
20	553	87.1	117	7	US-11-004-590-163		Sequence 163, App
21	553	87.1	117	7	US-11-004-590-172		Sequence 172, App
22	553	87.1	117	7	US-11-004-590-204		Sequence 204, App
23	553	87.1	117	7	US-11-004-590-223		Sequence 223, App
24	552	86.9	117	7	US-11-004-590-176		Sequence 176, App
25	552	86.9	117	7	US-11-004-590-183		Sequence 183, App

```
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: US 60/527,167
; PRIOR FILING DATE: 2003-12-04
; PRIORITY APPLICATION NUMBER: US 60/581,613
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: US 60/601,665
; PRIOR FILING DATE: 2004-08-13
; PRIOR APPLICATION NUMBER: US 60/619,483
; PRIOR FILING DATE: 2004-10-14
; NUMBER OF SEQ ID NOS: 458
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 119
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-004-590-119

Query Match      100.0%; Score 635; DB 7; Length 117;
Best Local Similarity 100.0%; Pred. No. 2.5e-44;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKPQGQGLEWIGWIIYPGSGNTKY 60
   |||||
Db 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKPQGQGLEWIGWIIYPGSGNTKY 60
   |||||

QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSDTAVYFCANYGNWFAWYGOGTQVTVSA 117
   |||||
Db 61 NEKFKGKATLTVDTSSTAFMQLSSLTSDTAVYFCANYGNWFAWYGOGTQVTVSA 117
   |||||
```

```
RESULT 3
US-11-004-590-221
; Sequence 221, Application US/11004590
; Publication No. US2006008883A1
; GENERAL INFORMATION:
; APPLICANT: Lazar, Gregory Alan
; APPLICANT: Desjarlais, John R.
; APPLICANT: Hammond, Phillip W.
; TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING
; TITLE OF INVENTION: CONTENT AND COMPOSITIONS THEREOF
; FILE REFERENCE: 185932/US/5
; CURRENT APPLICATION NUMBER: US/11/004,590
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: US 60/527,167
; PRIOR FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: US 60/581,613
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: US 60/601,665
; PRIOR FILING DATE: 2004-08-13
; PRIOR APPLICATION NUMBER: US 60/619,483
; PRIOR FILING DATE: 2004-10-14
; NUMBER OF SEQ ID NOS: 458
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 221
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-004-590-221
```

```
Query Match      89.9%; Score 571; DB 7; Length 117;
Best Local Similarity 86.3%; Pred. No. 3.1e-39;
Matches 101; Conservative 10; Mismatches 6; Indels 0; Gaps 0;

QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKPQGQGLEWIGWIIYPGSGNTKY 60
   |||||
Db 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKPQGQGLEWIGWIIYPGSGNTKY 60
   |||||

QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSDTAVYFCANYGNWFAWYGOGTQVTVSA 117
   |||||
Db 61 NEKFKGKATLTVDTSSTAFMQLSSLTSDTAVYFCANYGNWFAWYGOGTQVTVSS 117
   |||||
```

RESULT 4

```
US-11-004-590-166
; Sequence 166, Application US/11004590
; Publication No. US2006008883A1
; GENERAL INFORMATION:
; APPLICANT: Lazar, Gregory Alan
; APPLICANT: Desjarlais, John R.
; APPLICANT: Hammond, Phillip W.
; TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING
; TITLE OF INVENTION: CONTENT AND COMPOSITIONS THEREOF
; FILE REFERENCE: 185932/US/5
; CURRENT APPLICATION NUMBER: US/11/004,590
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: US 60/527,167
; PRIOR FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: US 60/581,613
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: US 60/601,665
; PRIOR FILING DATE: 2004-08-13
; PRIOR APPLICATION NUMBER: US 60/619,483
; PRIOR FILING DATE: 2004-10-14
; NUMBER OF SEQ ID NOS: 458
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 166
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic
US-11-004-590-166
```

```
Query Match      89.3%; Score 567; DB 7; Length 117;
Best Local Similarity 85.5%; Pred. No. 6.4e-39;
Matches 100; Conservative 10; Mismatches 7; Indels 0; Gaps 0;

QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKPQGQGLEWIGWIIYPGSGNTKY 60
   |||||
Db 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKPQGQGLEWIGWIIYPGSGNTKY 60
   |||||

QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSDTAVYFCANYGNWFAWYGOGTQVTVSA 117
   |||||
Db 61 NEKFGQGVTTTVDTSASTAYMELSLRSEDATVYFCANYGNWFAWYGOGTLLTVSS 117
   |||||
```

```
RESULT 5
US-11-004-590-181
; Sequence 181, Application US/11004590
; Publication No. US2006008883A1
; GENERAL INFORMATION:
; APPLICANT: Lazar, Gregory Alan
; APPLICANT: Desjarlais, John R.
; APPLICANT: Hammond, Phillip W.
; TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING
; TITLE OF INVENTION: CONTENT AND COMPOSITIONS THEREOF
; FILE REFERENCE: 185832/US/5
; CURRENT APPLICATION NUMBER: US/11/004,590
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: US 60/527,167
; PRIOR FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: US 60/581,613
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: US 60/601,665
; PRIOR FILING DATE: 2004-08-13
; PRIOR APPLICATION NUMBER: US 60/619,483
; PRIOR FILING DATE: 2004-10-14
; NUMBER OF SEQ ID NOS: 458
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 181
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic
US-11-004-590-181
```

```
Query Match      89.3%; Score 567; DB 7; Length 117;
Best Local Similarity 85.5%; Pred. No. 6.4e-39;
Matches 100; Conservative 10; Mismatches 7; Indels 0; Gaps 0;

QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKQKPGQGLEWIGWYIPGSGNTKY 60
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1 QIQLVQSGAEVKKPGASVKVSKASGYTFTDYYITWVRQAPGQGLEWMGMWYIPGSGNTKY 60
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

QY 61 NEKPKGKATLTVDTSSTAFMQLSSLTSDTAVYFCANYGNWYFAWVGQGTQVTVSA 117
   ||||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 61 NEKPGQGRVTITVDTSSTAYMELSSLRSEDYAVYFCANYGNWYFAWVGQGTTLTVSS 117
   ||||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||

RESULT 6
US-11-004-590-168
; Sequence 168, Application US/11004590
; Publication No. US2006000883A1
; GENERAL INFORMATION:
; APPLICANT: Lazar, Gregory Alan
; APPLICANT: Desjarlais, John R.
; APPLICANT: Hammond, Phillip W.
; TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING
; FILE REFERENCE: 185832/US/5
; CURRENT APPLICATION NUMBER: US/11/004,590
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: US 60/527,167
; PRIOR FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: US 60/581,613
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: US 60/601,665
; PRIOR FILING DATE: 2004-08-13
; PRIOR APPLICATION NUMBER: US 60/619,483
; PRIOR FILING DATE: 2004-10-14
; NUMBER OF SEQ ID NOS: 458
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic
US-11-004-590-168

Query Match      88.7%; Score 563; DB 7; Length 117;
Best Local Similarity 85.5%; Pred. No. 1.3e-38;
Matches 100; Conservative 10; Mismatches 7; Indels 0; Gaps 0;

QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKQKPGQGLEWIGWYIPGSGNTKY 60
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1 QIQLVQSGAEVKKPGASVKVSKASGYTFTDYYITWVRQAPGQGLEWMGMWYIPGSGNTKY 60
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

QY 61 NEKPKGKATLTVDTSSTAFMQLSSLTSDTAVYFCANYGNWYFAWVGQGTQVTVSA 117
   ||||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 61 NEKPGQGRVTITVDTSSTAYMELSSLRSEDYAVYFCANYGNWYFAWVGQGTTLTVSS 117
   ||||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||

RESULT 7
US-11-004-590-170
; Sequence 170, Application US/11004590
; Publication No. US2006000883A1
; GENERAL INFORMATION:
; APPLICANT: Lazar, Gregory Alan
; APPLICANT: Desjarlais, John R.
; APPLICANT: Hammond, Phillip W.
; TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING
; FILE REFERENCE: 185832/US/5
; CURRENT APPLICATION NUMBER: US/11/004,590
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: US 60/527,167
; PRIOR FILING DATE: 2003-12-04
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; PRIOR APPLICATION NUMBER: US 60/581,613
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: US 60/601,665
; PRIOR FILING DATE: 2004-08-13
; PRIOR APPLICATION NUMBER: US 60/619,483
; PRIOR FILING DATE: 2004-10-14
; NUMBER OF SEQ ID NOS: 458
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 170
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic
US-11-004-590-170

Query Match      88.7%; Score 563; DB 7; Length 117;
Best Local Similarity 85.5%; Pred. No. 1.3e-38;
Matches 100; Conservative 10; Mismatches 7; Indels 0; Gaps 0;

QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKQKPGQGLEWIGWYIPGSGNTKY 60
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1 QIQLVQSGAEVKKPGASVKVSKASGYTFTDYYITWVRQAPGQGLEWMGMWYIPGSGNTKY 60
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

QY 61 NEKPKGKATLTVDTSSTAFMQLSSLTSDTAVYFCANYGNWYFAWVGQGTQVTVSA 117
   ||||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 61 NEKPGQGRVTITVDTSSTAYMELSSLRSEDYAVYFCANYGNWYFAWVGQGTTLTVSS 117
   ||||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||

RESULT 8
US-11-004-590-169
; Sequence 169, Application US/11004590
; Publication No. US2006000883A1
; GENERAL INFORMATION:
; APPLICANT: Lazar, Gregory Alan
; APPLICANT: Desjarlais, John R.
; APPLICANT: Hammond, Phillip W.
; TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING
; FILE REFERENCE: 185832/US/5
; CURRENT APPLICATION NUMBER: US/11/004,590
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: US 60/527,167
; PRIOR FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: US 60/581,613
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: US 60/601,665
; PRIOR FILING DATE: 2004-08-13
; PRIOR APPLICATION NUMBER: US 60/619,483
; PRIOR FILING DATE: 2004-10-14
; NUMBER OF SEQ ID NOS: 458
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 169
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic
US-11-004-590-169

Query Match      88.2%; Score 560; DB 7; Length 117;
Best Local Similarity 84.6%; Pred. No. 2.3e-38;
Matches 99; Conservative 11; Mismatches 7; Indels 0; Gaps 0;

QY 1 QIQLQSGPEVVKPGASVKISCKASGYTFTDYYITWVKQKPGQGLEWIGWYIPGSGNTKY 60
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1 QIQLVQSGAEVKKPGSSVSKASGYTFTDYYITWVRQAPGQGLEWMGMWYIPGSGNTKY 60
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

QY 61 NEKPKGKATLTVDTSSTAFMQLSSLTSDTAVYFCANYGNWYFAWVGQGTQVTVSA 117
   ||||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 61 NEKPGQGRVTITVDTSASTAYMELSSLRSEDYAVYFCANYGNWYFAWVGQGTTLTVSS 117
   ||||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
```

US-11-004-590-165

Query Match 88.0%; Score 559; DB 7; Length 117;  
Best Local Similarity 84.6%; Pred. No. 2.8e-38;  
Matches 99; Conservative 10; Mismatches 8; Indels 0; Gaps 0;

Qy 1 QIQLOSGPEVVKPGASVKISCKASYTFTDYYITWVKPKGQGLEWIGWIYPGSGNTKY 60  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Db 1 QIQLVGSQPEVKPGTSVKVSKCASGYTFTDYYITWVRQATGQGLEWMGWIIYPGSGNTKY 60  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Qy 61 NEKFKGKATLTVDTSSTAFMQLSSITSDDTAIVFCANYGNWFAYWGQGTQTWTVA 117  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Db 61 NEKFGGRVTITVDTASTAYMELSSLRSDDTAIVFCANYGNWFAYWGQGLTVTVSS 117  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 11

US-11-004-590-178  
Sequence 178, Application US/11004590  
Publication No. US20060008883A1  
GENERAL INFORMATION:  
APPLICANT: Lazar, Gregory Alan  
APPLICANT: Desjarlais, John R.  
APPLICANT: Hammond, Phillip W.  
TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING  
FILE REFERENCE: 185832/US/5  
CURRENT APPLICATION NUMBER: US/11/004,590  
CURRENT FILING DATE: 2004-12-03  
PRIOR APPLICATION NUMBER: US 60/527,167  
PRIOR FILING DATE: 2003-12-04  
PRIOR APPLICATION NUMBER: US 60/581,613  
PRIOR FILING DATE: 2004-06-21  
PRIOR APPLICATION NUMBER: US 60/601,665  
PRIOR FILING DATE: 2004-08-13  
PRIOR APPLICATION NUMBER: US 60/619,483  
PRIOR FILING DATE: 2004-10-14  
NUMBER OF SEQ ID NOS: 458  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 178  
LENGTH: 117  
TYPE: PRT  
ORGANISM: Artificial  
FEATURE:  
OTHER INFORMATION: Synthetic

US-11-004-590-178

Query Match 88.0%; Score 559; DB 7; Length 117;  
Best Local Similarity 84.6%; Pred. No. 2.8e-38;  
Matches 99; Conservative 10; Mismatches 8; Indels 0; Gaps 0;

Qy 1 QIQLOSGPEVVKPGASVKISCKASYTFTDYYITWVKPKGQGLEWIGWIYPGSGNTKY 60  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Db 1 QIQLVGSQPEVKPGTSVKVSKCASGYTFTDYYITWVRQATGQGLEWMGWIIYPGSGNTKY 60  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Qy 61 NEKFKGKATLTVDTSSTAFMQLSSITSDDTAIVFCANYGNWFAYWGQGTQTWTVA 117  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Db 61 NEKFGGRVTITVDTASTAYMELSSLRSDDTAIVFCANYGNWFAYWGQGLTVTVSS 117  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 12

US-11-004-590-180  
Sequence 180, Application US/11004590  
Publication No. US20060008883A1  
GENERAL INFORMATION:  
APPLICANT: Lazar, Gregory Alan  
APPLICANT: Desjarlais, John R.  
APPLICANT: Hammond, Phillip W.  
TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING  
FILE REFERENCE: 185832/US/5  
CURRENT APPLICATION NUMBER: US/11/004,590  
CURRENT FILING DATE: 2004-12-03  
PRIOR APPLICATION NUMBER: US 60/527,167

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, PRIOR FILING DATE: 2004-06-21
, PRIOR APPLICATION NUMBER: US 60/601,665
, PRIOR FILING DATE: 2004-08-13
, PRIOR APPLICATION NUMBER: US 60/619,483
, PRIOR FILING DATE: 2004-10-14
, NUMBER OF SEQ ID NOS: 458
, SOFTWARE: PatentIn version 3.3
, SEQ ID NO 207
, LENGTH: 117
, TYPE: PRT
, ORGANISM: Artificial

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OTHER INFORMATION: Synthetic  
US-11-004-590-207

Query Match 87.7%; Score 557; DB 7; Length 117;  
Best Local Similarity 82.9%; Pred. No. 4e-38;  
Matches 97; Conservative 12; Mismatches 8; Indels 0; Gaps 0;  
QY 1 QIQLOQSGPEVVKPGASVKISCKASGYTFDYITWVKOKPGGLEWIGWIYFGSGNTKY 60  
DB 1 QIQLVQSGPEVVKPGTSVKVSKASGYTFDYITWVRQAPGQGLEWNGWIYFGSGNTKY 60  
QY 61 NEKFKGKATLTVDTSSTAFMQLSSLTSEDYVFCANYGNWYFAYWGQGTQVTVSA 117  
DB 61 NEKFGQGRVTMTVDTSSTAYLQICSLKAEDYVFCANYGNWYFAYWGQGTQVTVSS 117

Search completed: March 17, 2006, 20:27:40  
Job time : 24 secs